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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER ACTION as | see Form PCT/ISA/220 well as, where applicable, item 5 below. |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 052209-0129 International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) |
| PCT/US2004/033698 | 14/10/2004 | 16/10/2003 |
| Applicant | 11,10,2001 | 10,10,2003 |
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| FERRING B.V. | | |
| This International Search Report has be according to Article 18. A copy is being | een prepared by this International Searching transmitted to the International Bureau. | Authority and is transmitted to the applicant |
| | ts of a total of7 sheets. by a copy of each prior art document cited in | this report. |
| | ne international search was carried out on the unless otherwise indicated under this item. | basis of the international application in the |
| The international this Authority (F | | anslation of the international application furnished to |
| b. With regard to any nuc l | eotide and/or amino acid sequence disclo | sed in the international application, see Box No. I. |
| 2. X Certain claims were fo | ound unsearchable (See Box II). | |
| 3. Unity of invention is la | acking (see Box III). | |
| 4. With regard to the title , | | |
| | submitted by the applicant. | |
| | lished by this Authority to read as follows: RIVATIVES AND THEIR USE IN | THE TREATMENT OF DAIN |
| ANIDE OR INTOMIDE DER | CIVALIVES AND THEIR USE IN | THE TREATMENT OF FAIN |
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| | | |
| 5. With regard to the abstract, | | |
| | submitted by the applicant. | |
| | | hority as it appears in Box No. IV. The applicant earch report, submit comments to this Authority. |
| 6. With regard to the drawings , | | |
| ĭ — | e published with the abstract is Figure No | |
| as suggested b | | |
| as selected by t | this Authority, because the applicant failed to | suggest a figure. |
| | this Authority, because this figure better char | actorizes the invention |

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07C279/28 C07C237/22

A61K31/17

A61K31/165

A61P25/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ IPC & 7 & C07C & A61K & A61P \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, CHEM ABS Data, BIOSIS, WPI Data

| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | | |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|--|--|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | | | |
| Х | DE 33 29 628 A1 (MIDIT SOCIETE FIDUCIAIRE; CONTINENTAL PHARMA INC., BRUESSEL/BRUXELLES,) 22 March 1984 (1984-03-22) table I, examles 9, 13, 14, 41, 42 page 67, line 13; claims 1,18,22 | 1,10-17 | | | |
| X | DATABASE BEILSTEIN BEILSTEIN INSTITUT ZUR FÖRDERUNG DER CHEMISCHEN WISSENSCHAFTEN, FRANKFURT AM MAIN, DE; XP002319731 Database accession no. BRN 8702792 abstract & L. M. DECK; E. P. PAPADOPOULOS: J. HETEROCYCL. CHEM., vol. 37, no. 4, 2000, pages 675-680, | 1-8 | | | |

| Further documents are listed in the continuation of box C. | Patent family members are listed in annex. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family |
| Date of the actual completion of the international search 2 March 2005 | Date of mailing of the international search report $14/03/2005$ |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, | Authorized officer Seufert. G |

Fax: (+31-70) 340-3016

| .(Continu | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | |
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| ategory ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | DE 20 05 326 A1 (BADISCHE ANILIN- & SODA-FABRIK AG) 12 August 1971 (1971-08-12) examples 26-28 | 1-6,8 |
| X | DATABASE BEILSTEIN BEILSTEIN INSTITUT ZUR FÖRDERUNG DER CHEMISCHEN WISSENSCHAFTEN, FRANKFURT AM MAIN, DE; XP002319732 Database accession no. BRN 2808453 abstract & ELMORE: J. CHEM. SOC., 1961, pages 3161-3162, | 1-3,5,6, 8 |
| K | DATABASE BEILSTEIN BEILSTEIN INSTITUT ZUR FÖRDERUNG DER CHEMISCHEN WISSENSCHAFTEN, FRANKFURT AM MAIN, DE; XP002319733 Database accession no. BRN 2993980 abstract & SUMINOV: MOSCOW UNIV. CHEM. BULL, vol. 22, no. 1, 1967, pages 57-75, | 1-3,5-8 |
| X | DATABASE BEILSTEIN BEILSTEIN INSTITUT ZUR FÖRDERUNG DER CHEMISCHEN WISSENSCHAFTEN, FRANKFURT AM MAIN, DE; XP002319734 Database accession no. BRN 7033473 abstract & L. I. MIZRAKH ET AL.: RUSS. J. GEN. CHEM., vol. 63, no. 3.2, 1993, pages 497-498, | 1-3,5,6, |
| X | DATABASE BEILSTEIN BEILSTEIN INSTITUT ZUR FÖRDERUNG DER CHEMISCHEN WISSENSCHAFTEN, FRANKFURT AM MAIN, DE; XP002319735 Database accession no. BRN 4450540, 4435773 abstract & V. MACHACEK ET AL.: COLLECT. CZECH. CHEM. COMMUN., vol. 52, no. 1, 1987, pages 140-155, | 1-6 |
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| C.(Continua | tion) DOCUMENTS CONSIDERED TO BE RELEVANT | |
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| | & LEE, YONG SUP ET AL.: HETEROCYCLES, vol. 38, no. 12, 1994, pages 2605-2614, | |
| X | US 5 516 795 A (DELLARIA, JOSEPH F. ET AL) 14 May 1996 (1996-05-14) column 39,table 3, examples 58 and 59 | 1,2,4-6 |
| (| US 2 447 587 A (MARTIN HENRY ET AL) 24 August 1948 (1948-08-24) table 1, example 16 | 1,10-12 |
| X . | DATABASE BEILSTEIN BEILSTEIN INSTITUT ZUR FÖRDERUNG DER CHEMISCHEN WISSENSCHAFTEN, FRANKFURT AM MAIN, DE; XP002319737 Database accession no. BRN 2669014 abstract & UGI ET AL.: CHEM. BER. 94, 1961, page 2814, | 1,10-12 |
| X | D. L. BOGER ET AL.: "Vancomycin and Ristocetin Models: Synthesis via the Ullmann Macrocyclization Reaction" J. ORG. CHEM., vol. 58, no. 6, 1993, pages 1425-1433, XP002319730 see scheme IV, compound 21 | 1,10-12 |
| A | WO 02/085866 A (ASTRAZENECA AB; CHENG, YUN-XING; TOMASZEWSKI, MIROSLAW; WALPOLE, CHRIS) 31 October 2002 (2002-10-31) cited in the application page 1, line 4 - line 8; claims; examples | |
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INTERNATIONAL SEARCH REPORT

International application No. PCT/US2004/033698

| Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: |
| 1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Although claim 17 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the |
| compound/composition. |
| because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: |
| Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) |
| This International Searching Authority found multiple inventions in this international application, as follows: |
| 1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. |
| 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: |
| 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: |
| The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees. |

INTERN ONAL SEARCH REPORT

Information on patent family members

eational Application No PCT/US2004/033698

| | | | | ' | 01/032 | 2004/033698 |
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